

METHOD AND APPARATUS FOR MULTI-PROTOCOL REDUNDANT ROUTER
PROTOCOL SUPPORT

ABSTRACT

A router is capable of providing multi-protocol
5 redundant router protocol support. The redundant router
protocols supported by the router include Hot Standby
Router Protocol (HSRP) and Virtual Router Redundancy
Protocol (VRRP). The router is capable of supporting
multiple groups of virtual routers for each of the
10 redundant router protocols. The router receives a packet
and checks for prefix matching of MAC address bits. If the
prefix of MAC address matches predefined HSRP or VRRP
pattern, the router formulates a key, and compares the key
against VRRP/HSRP database. If the key matches, the router
15 routes the packet using virtual router address.